

# Increase of reliability of contact networks of electric transport, due to increase of strength of the joint unit of pipes of different diameters

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## Abstract

© Published under licence by IOP Publishing Ltd. The feature of the stress state of the supports of the contact networks is the presence of a joint of pipes of different diameters, the ultimate state of which is determined, as a rule, the strength of the weld. The proposed unit allows to increase the reliability and strength of the connection and also exclude the presence of a weld bead on the outer surface of the pipe of smaller diameter in the place of its attachment to the upper end of the support ring.

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